Creating a Custom Set of Parameters for the Multipanel Display

After activating the Multipanel Parameters Window (as outlined in the previous section, "Activating the Multipanel Parameters Window"), you may choose to use a custom set of parameters for your Multipanel Display Window. (NOTE: If you do NOT wish to use custom parameters, go to "Choosing a Predetermined Set of Parameters for the Multipanel Display").

To use a custom set of parameters:

1. **Open a reflectivity, storm relative velocity, or other relevant image that you wish to utilize in the Multipanel Display and go to the desired volume scan. Set up the Zoom and center points of the image(s).** The Multipanel Display will utilize the zoom factor and center point you selected, or you may set values for the zoom in the parameter settings. The center point of the image will be the default center of an image unless otherwise specified.

2. **Activate the Multipanel Parameters Window, if not open, by pressing the** Set Parameters **button.** (The Set Parameters is accessed through the Panels button on the Control Panel.)

3. **Choose the number of panels you wish to have in the upper section of the Multipanel Parameters Window by clicking on the appropriate button.** Figure 2.32 shows an example of the choices with the four-panel display.

Figure 2.32: The PrmShell area used to indicate the type of Multipanel display, and the number of panel images.

Now you will set up the first panel in the display in steps 4 through 7. After setting up panel number one, repeat these steps for each subsequent panel.

4. **Choose the type of image to be displayed in this panel by clicking once on the REF (Reflectivity), VEL (Radial Velocity), SRVEL (Storm Relative Velocity), or CMP_REF (Composite Reflectivity) button.** An example of this area of the Multipanels Parameter menu is shown in Figure 2.33, with the VEL (Velocity) image chosen.

   Only one type of image may be chosen for each panel. Precipitation, Spectrum Width and Template images may not be used in Multipanel Displays.

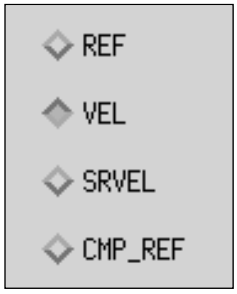


Figure 2.33: Choices for type of image in the current panel.

5. **Choose the volume scan to be displayed in the current panel by clicking once on the Prev Vol (Previous Volume Scan from the current volume scan displayed in the Control Panel), This Vol (the current volume scan displayed in the Control Panel), or Next Vol (next volume scan as counted from the current volume scan displayed in the Control Panel) button.** An example with "This Vol" selected is shown in Figure 2.34.

   If you use these parameter settings later with other volume scans to create new Multipanel Displays, the new panels will be created using the most current volume scan.

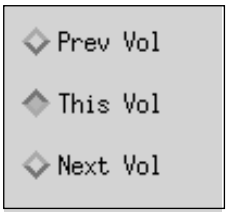


Figure 2.34: Choices for volume scan to be displayed in the current panel.

6. **Choose the Sweep number for the current panel you are defining by using the Sweep selector (Figure 2.35). Click once on the desired Sweep number.** Note that a scroll bar is added to display all sweeps. Click on the  (<up-arrow>) or  (<down-arrow>) to view all sweeps in a volume scan. The example shown in Figure 2.35 has Sweep number one (Sweep1) selected.

   The number of sweeps in a volume scan will vary depending on the radar's Volume Coverage Pattern.

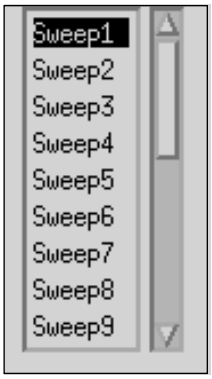
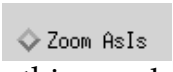


Figure 2.35: Sweep Menu for Multipanel Parameter

7. **Select the zoom factor desired by choosing one of the zoom factor buttons. Figure 2.36 shows a zoom factor of four chosen.**

   Note that the  selection gives the same zoom factor to this panel as is used in the associated image window currently displayed.

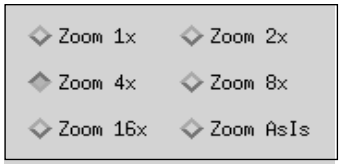


Figure 2.36: Choices for Zoom factor.

   If you want this panel's zoom factor to be applied to all panels to be displayed, click once on  button.

The current Panel is now defined. Proceed to the next Panel Number in Step 8 if you have not finished defining all Panels for this Multipanel Display setup.

If you are finished defining Panels, skip to Step 10.

8. **Click on the**  button to proceed to the next Panel Number. The next Panel Number will appear in the center of the Panel Number area, Figure 2.37, with Panel Number 1 as the current Panel.

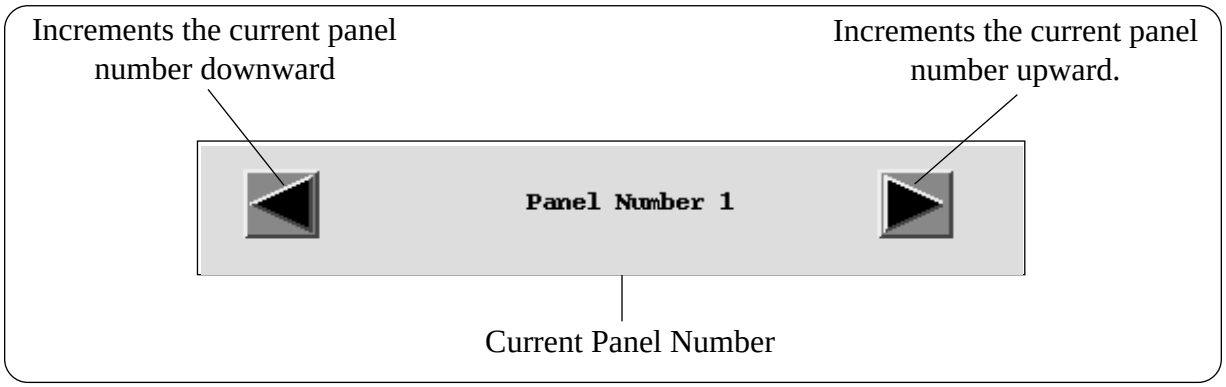


Figure 2.37: The arrow keys and current panel display area. These arrows are used to select the current Panel being defined.

9. **Repeat steps 4 through 8 until all panels are configured.**

10. **Click on** Done/Save **once to save your settings.**

    Note that at this point you may click on CLOSE/Cancel to exit the Multipanel Parameter Window without saving new parameters.

11. **Click on** Create Panel **to create a Multipanel Display.** (Create Panel is on the Panels menu window, which is accessed on the Control Panel.)

Only one Multipanel Display may be activated at a time. To create a new one after you have changed to a new volume scan, close the Multipanel display ,if one existed, by clicking on the CLOSE button in the Multipanel Display window. Then repeat step five, above. Using the same parameters settings, you may generate multiple successive new Multipanel Displays.

Create Panel: CREATING THE MULTIPANEL DISPLAY

Once the Multipanel Parameters are set up, as outlined in the previous two sections, you may create a new Multipanel Display at any time using those parameters. To create a new Multipanel Display:

1. **If a Multipanel Display is presently activated, close it by pressing the CLOSE button on the image**.

2. **Open a reflectivity, storm relative velocity, or other relevant image that you wish to utilize in the Multipanel Display and go to the desired volume scan. Set up your desired image(s) Zoom and center points.** The Multipanel Display will utilize the zoom factor in the associated image windows if your Multipanel Display zoom parameter is set to "Zoom As Is." Be sure to set the center point of the image to the position you want the Multipanel Display images to be centered on in each type of image (REF, VEL, SRVEL, and CMP_REF).

   For example, if your Multipanel Display parameters set some of the Panels to REF (reflectivity) images, you would center a reflectivity image to the desired point BEFORE creating the Multipanel Display.

3. **Activate any Overlays and Maps on the associated images that you wish to appear in the Multipanel Display panels.** This includes NSSL algorithm overlays (NSSL Cell Tracks, NSSL Cell ID's, NSSL Meso Tracks, NSSL Meso icons, NSSL Meso ID's, NSSL 2D Meso icons, NSSL Tornado Tracks, NSSL Tornado icons), and City, County, Highway, or River maps. Remember that you access these features on each individual image through the Image Tool Bar.

4. **Click on the Panels button on the Control Panel to activate the Panels menu, if it is not activated already.**

5. **Click on Create Panel to create the Multipanel Display image.** This may take a few moments. The Linked Windows feature will automatically appear and RADS will "step through" each of the sweeps used in your Multipanel Display, which allows image captures.

Figure 2.38 shows reflectivity and velocity images as they were centered and zoomed, and then the associated Multipanel Display. Also note that the reflectivity and velocity images have different image Overlays and Maps.